CARDIAC ELECTROPHYSIOLOGY I

Chairperson: Hescheler J, Berlin

327. Gollasch M, Kleppisch T, Lewinsohn D, Krautwurst D, Linke L, Hescheler J: Involvement of a pertussis toxin-sensitive G-protein in the inhibition of inwardly rectifying K^+ currents by platelet-activating factor in guinea-pig cardiomyocytes

328. Koivisto A, Ruß U, Nedergaard J, Siemen D: Modulation of the nonselective cation channel of rat brown adipocytes by guanosine nucleotides and Ca^{2+}

329. Benndorf K, Biskup C, Friedrich M: Voltage dependence of Na/Ca exchanger current in Ca overloaded ventricular heart cells of the guinea pig

330. Benndorf K, Friedrich M: Low noise patch clamp unveils amplitude dissociation of cardiac unitary Na currents at temperatures above 25°C

331. Benndorf K: Activation kinetics of macroscopic cardiac Na currents studied in giant patches of ventricular mouse cells

332. Kamkin A, Kohl P, Kiseleva I, Pylaev A: Capacitive interaction between cardiomyocytes and fibroblasts across their basal membrane

333. Proebstle T, Schneider M, Brinkmeier H, Hombach V, Rüdel R: Rekombinant interleukin 2 blocks sodium channels in isolated human cardiocytes

334. Eickhorn R, Isensee H, Jacob R, Antoni H: No obvious influence of dietary fatty acid intake on cardiac sodium current of the rat

335. Bielen FV, Glitsch HG, Verdonck F: The kinetics of the Na pump current inhibition by dihydroouabain in single rabbit cardiac Purkinje cells

336. Glitsch HG, Pusch H, Trinath O: Effect of adenosine on membrane currents of sheep cardiac Purkinje fibres

337. Beuckelmann DJ, Näbauer M, Erdmann E: Transient outward current in human ventricular myocytes from patients with terminal heart failure

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CARDIAC ELECTROPHYSIOLOGY III

Chairman: Bechem M, Wuppertal

338. Weirich J, Hohnloser S, Dieterle T, Antoni H: Inverse frequency-dependence of cardiac electrophysiological effects induced by d-sotalol is consistent with a periodical interaction with closed potassium channels

339. Haverkampf K, Lindemann H, Antoni H: Spread of excitation in neonatal rat heart cell cultures investigated by simultaneous registrations at different sites

340. Biskup C, Benndorf K, Friedrich M, Hirche H: Induction and inhibition of arrhythmogenic transient inward currents in isolated heart cells of the guinea pig

341. Dhein S, Müller A, Klaus W: Blockade of sodium-channel enhances action potential dispersion in non-uniform anisotropic tissue. A modeling study.

342. Proebstle T, Schneider M, Hombach V, Rüdel R: Sodium channels in isolated human atrial cardiocytes

343. Kannenberg A, Schubert E, Patzak A: The rhythmicity of the spectral components of heart period variability in trained children (12 - 14 yrs)

344. Kannenberg A, Schubert E: Circadian rhythms of heart period duration and sinusarrhythmia in physically trained children between the ages of 12 and 14 years

345. Schubert E, Patzak A, Laube W: The power spectrum of the heart period variability during exercise and recovery periods

346. Kirchhof CJHJ, DeGoede J: Dynamical analysis of atrial fibrillation

347. Roossien A, Brunsting JR, Zaagsma J, Zijlstra WG: Vasoactive intestinal polypeptide: a probable mediator of vagal cardio-acceleration (VCA) in dogs

Source: https://www.industrydocuments.ucsf.edu/docs/qrdl0000

CARDIAC ARRHYTHMIA

Chairperson: Schubert E, Berlin

348. Kohl P, Kamkin A, Kiseleva I, Pylaev A: Mechano-sensitive cells in the right atrium of the rat heart

349. Verheijck EE, Bourier J, van Ginneken ACG, Bouman LN: Distribution and electrical activity of cell types in the rabbit sino-atrial node

350. Kirchhof C, Chorro F, Scheffer GJ, Brugada J, Boersma L, Allessie M: Mapping during regional control of atrial fibrillation by local electrical stimulation

351. Wijffels M, Kirchhof C, Konings K, Allessie M: Artificially maintained atrial fibrillation causes chronic atrial fibrillation in conscious goats

352. Patzak A, Ebner J, Johl C, Berndt E-U, Schubert E: The effect of hypocapnia on heart rate and heart period variability

353. Werner F, Abel H-H, Klüßendorf D, Koralewski HE, Droh R, Koepchen HP: Impact of general anaestesia on cardiac chronotropic control: reduction in beat-to-beat variability

354. Kurcok A, Krzeminski T: Influence of anesthetics: urethane and thiopenton on severity of reperfusion-induced arrhythmias and heart injury in rats - Comparison with pentobarbital using arrhythmia scores

355. Boersma L, Brugada J, Kirchhof C, Allessie M: The response to single extra-stimuli characterizes funtional or anatomical reentrant tachycardia in anisotropic ventricular myocardium

356. Zetelaki Z, Kirchhof C, Allessie M: Mechanism of polymorphic ventricular tachycardia in the isolated rabbit heart

357. Boersma L, Brugada J, Abdollah H, Kirchhof C, Allessie M: Heptanol and ARG7797 enhance the susceptibility to acceleration of reentrant ventricular tachycardia by doublewave reentry during entrainment

358. Eiselt M, Curzi-Dascalova L, Leffler C: Sighs related heart rate changes: comparison between eutrophic and hypotrophic human neonates

359. Kunze W, Heinemann L, Cleveland S: Effect on the electrocardiogram of blood glucose level in diabetics: detection using a software system

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ENDOTHELIUM

Chairperson: Mülsch A, Freiburg

472. Mueller-Klieser W, Bredel-Geissler A, Karbach U, Walenta S, Vollrath L: Proliferation, oxygen comsumption, and morphology of tumor cells in monolayer and spheroid culture

473. Beckmann A, März W, Kostner GM, Siekmeier R, Groß W, Kaltenbach M, Schneider W: Effect of LDL, oxyLDL, and Lp(a) on prostaglandin biosynthesis in human umbilical vein endothelial cells

474. Piper HM, Kuhne W, Besselmann M, Watanabe H: Cytoskeletal disintegration in energy-depleted endothelial cells

475. Görlach A, Bölling B, Holtermann G, Acker H: The importance of the interaction between glycolytic and oxidative metabolism for growth and radiosensitivity of human tumor cell spheroids

476. Schilling L, Parsons AA, Cremer T, Wurzinger LJ, Wahl M: Endothelial damage by perfusion: enhanced resistance of cerebroarterial endothelium in the rabbit

477. Gericke M, Droogmans G, Nilius B: Thapsigargin induces a transmembrane current and discharges intracellular calcium stores in endothelial cells from human umbilical vein

478. Zeisberger E, Roth J, Kluger MJ: Changes in release of cytokines during the development of tolerance to bacterial pyrogens

479. Jäger LJE, Purbach B, Koester MB, Lutz J: Evidence of RES- burdening by means of a magnetometric procedure

Source: https://www.industrydocuments.ucsf.edu/docs/qrdl0000

MICROCIRCULATION

Chairperson: Gaehtgens P, Berlin

486. oude Egbrink MGA, Tangelder GJ, Slaaf DW, Reneman RS: Different substances are involved in thrombus formation and embolization following wall injury

487. Höper J, Kessler M, Hahn EG, Tauschek D, Kuchenreuther S, Müller G, Adler J, Praun M: Regulation o blood circulation in the skin

488. Jepsen H, Gaehtgens P: Sympathetic versus postural vasoconstriction in human finger skin during orthostasis

489. Pries AR, Friebel M, Heide J, Ley K, Klotz K-F, Gaehtgens P: Determinants of vascular tone in small arterioles of the rat spinotrapezius muscle at rest

490. Wagner KF, Noah EM, Perner R, Bruch H-P, Weiss C: Relation between preoperative muscle tissue PO_2 and postoperative wound healing

491. Laban C, Moll W: Wall viscosity of arteries measured with a rapidly recording system

492. Stick C, Gronewold D, Hansen G, Witzleb E: Pulse wave velocity and diameter changes of cutaneous veins

493. Bayjoo P, Brown NJ, Reed MWR: The influence of freezing on the cremaster muscle microcirculation in the anaesthetised rat

494. Rogausch H, Besedovsky H: Effect of the cytokine interleukin-1 on splenic blood flow

495. Bauer R, Bergmann R, Beyer R, Beyer G-J, Buchenau W, Hoyer D, Zwiener U: A new lowcost version of the radioactive labelled microsphere technique for multiple regional cerebral blood flow measurement using HSA-microspheres

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EXERCISE PHYSIOLOGY I

Chairperson: Binkhorst R, Nijmegen

529. Gunga H-C, Kirsch K, Röcker L: Tissue plasminogen activator (t-PA) levels during and after physical exercise, warm water (36,8 - 38,5°C) and thermoneutral (34,5 - 35.0°C) water immersion

530. Reinink G-L, Storck J, Zimmermann RE: Exercise-induced t-PA release and elimination under different conditions

531. Beelen A, Sargeant AJ, Jones DA, de Ruiter CJ: Fatigue during maximal cycling exercise: central or peripheral?

532. Persson PB, Strauß H, Unger T, Chung O, Wittmann U: Spectrum analysis of sympathetic nerve activity and blood pressure in conscious rats

533. Penzel T, Brandenburg U, Peter JH, Voight KH, von Wichert P: Differences in spectral analysis blood pressure in patients with sleep-related breathing disorders during non-REM and REM sleep

534. Beyer L, Weiß T, Hansen E, Meyer K, Rost R: CNS activation in relation to psychomotor demands

535. Koch G, Buchberger D: Adjustment of left ventricular contractility during the initial phase of exercise in the supine versus seated posture

536. Scheidel B, Asche T, Ulmer H-V, Scholle HC: A new method for measuring bite forces

537. Weis C, Huber J, Schober B, Marktl W: Acceptance of food supply among austrian military pilots

538. Muntinga JHJ, van Leeuwen JTM, Smit AJ, Visser KR: Vascular compliance and fluid volumes of the upper arm estimated by electrical impedance measurements in patients with untreated essential hypertension

539. Hinghofer-Szalkay H, König EM, Sauseng-Felleger G: Unexpected transient filtration after changes of lower body pressure

Source: https://www.industrydocuments.ucsf.edu/docs/qrdl0000

EXERCISE PHYSIOLOGY II

Chairperson: Rossberg F, Leipzig

540. Scholle HC, Popp S, Anders C, Schumann NP: Characterization of the distribution of spectral biceps brachii EMG parameters in neurological patients

541. Schumann NP, Scholle HC, Anders C: Human masseter muscle in healthy subjects during different functions: quantification and topographical distribution of spectral EMG parameters

542. Rossberg F, Penaz J: Spontaneous fluctuations of heart rate and arterial pressure during orthostatic load

543. Skyschally A, Breuer H-WM, Schulz R, Heusch G: Poor reproducibility of heart rate variability - indices in the frequency domain and in the time domain

544. Crowe A, Heidweiller J, de Boer MS, Keessen W, Schiereck P: Human gait studies using fourier analyses of ground reaction forces from two force plates

545. Rodenburg JB, Schiereck P, Bär PR: Effect of warming-up, stretching and massage on muscle damage due to negative work

546. Schildhauer K, Körtner G, Petrova O, Schmidt I: Sympathetically mediated activation of brown adipose tissue underlies the rapid cold-induced increase of metabolic rate in rat pups

547. Nüßlein B, Schmidt I: Insufficient energy-supply is not the reason for the daily drop of core temperature and oxygen consumption in rat pups

548. Weis C, Marktl W, Rudas B, Klammer N: Effect of family overweight on risk factors of arteriosclerosis among young adults

549. Marktl W, Holzer H, Klammer N, Weis C: Influence of D-mischtocopherol on serum lipids and serum lipoproteins

550. van Baak MA, Mooij JMV, Wijnen JAG: Intralipid administration and endurance performance during beta-adrenoceptor blockade

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Lecture Hall 3 A

4:10 - 5:00 p.m.

Chairperson: Richter D, Göttingen

2. Scheid P, Bochum — **Respiratory chemoreflexes from the lung**

Lecture Notes:

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